THE CLAIMS

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- 1. A golf ball comprising:
- (a) a core of two or more layers having an outer diameter of at least about 1.55 inches;
- (b) a cover layer having a flex modulus of less than about 20,000 psi; and
- 10 (c) a mantle layer disposed between the core and the cover;

wherein the mantle layer comprises a non-ionomeric, thermoplastic material, having a hardness of less than 60 Shore D and a resilience of greater than 34.

- 2. The golf ball of claim 1, wherein the mantle layer has a thickness from about .025 inches to about .125 inches.
 - 3. The golf ball of claim 1, wherein the core is comprised of an inner core layer and outer core layer and the inner core layer is comprised of a polybutadene rubber and organosulfer compound.
 - 4. The golf ball of claim 1, wherein the mantle has a flex modulus of greater than about 45,000 psi.
- 5. The golf ball of claim 1, wherein the overall diameter of the finished ball is about 1.68 inches to about 1.80 inches.
 - 6. A golf ball comprising:
- a core of one or more layers having a compression of about 30 to 90;
 - a cover of one or more layers; and
- a mantle layer disposed between the core layer and the cover formed from a nonionomeric, thermoplastic elastomer and having a vicat point of greater than about 350° F and a flexural modulus of at least about 45,000 psi.
 - 7. The golf ball of claim 6, wherein the cover is comprised of a polyurethane or polyurea based material.
 - 8. The golf ball of claim 6, wherein the core is comprised of an inner core layer and an outer core layer.
 - 9. The golf ball of claim 6, wherein the mantle has a Shore D hardness of at least about 60.

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- 10. The golf ball of claim 6, wherein the mantle layer has a thickness of less than about 0.1 inch.
- 11. The golf ball of claim 6, wherein the core has a diameter of at least about 1.55 inches.
- 12. The golf ball of claim 10, wherein the cover layer has a flex modulus of less than about 20,000 psi.

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- 13. The golf ball of claim 6, wherein the cover is comprised of an inner cover layer having a thickness of about 0.005 and 0.06 inches and an outer cover layer having a thickness of about 0.005 and 0.035.
- 14. The golf ball of claim 6, wherein the ball has a coefficient of restitution greater than about 0.805.